

FIG. 1

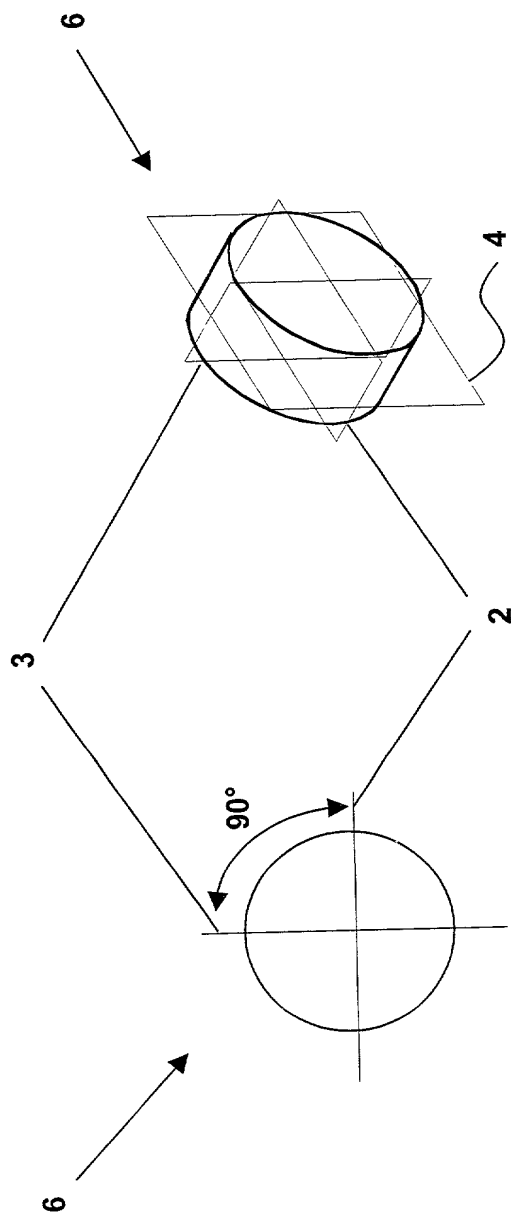


FIG. 2

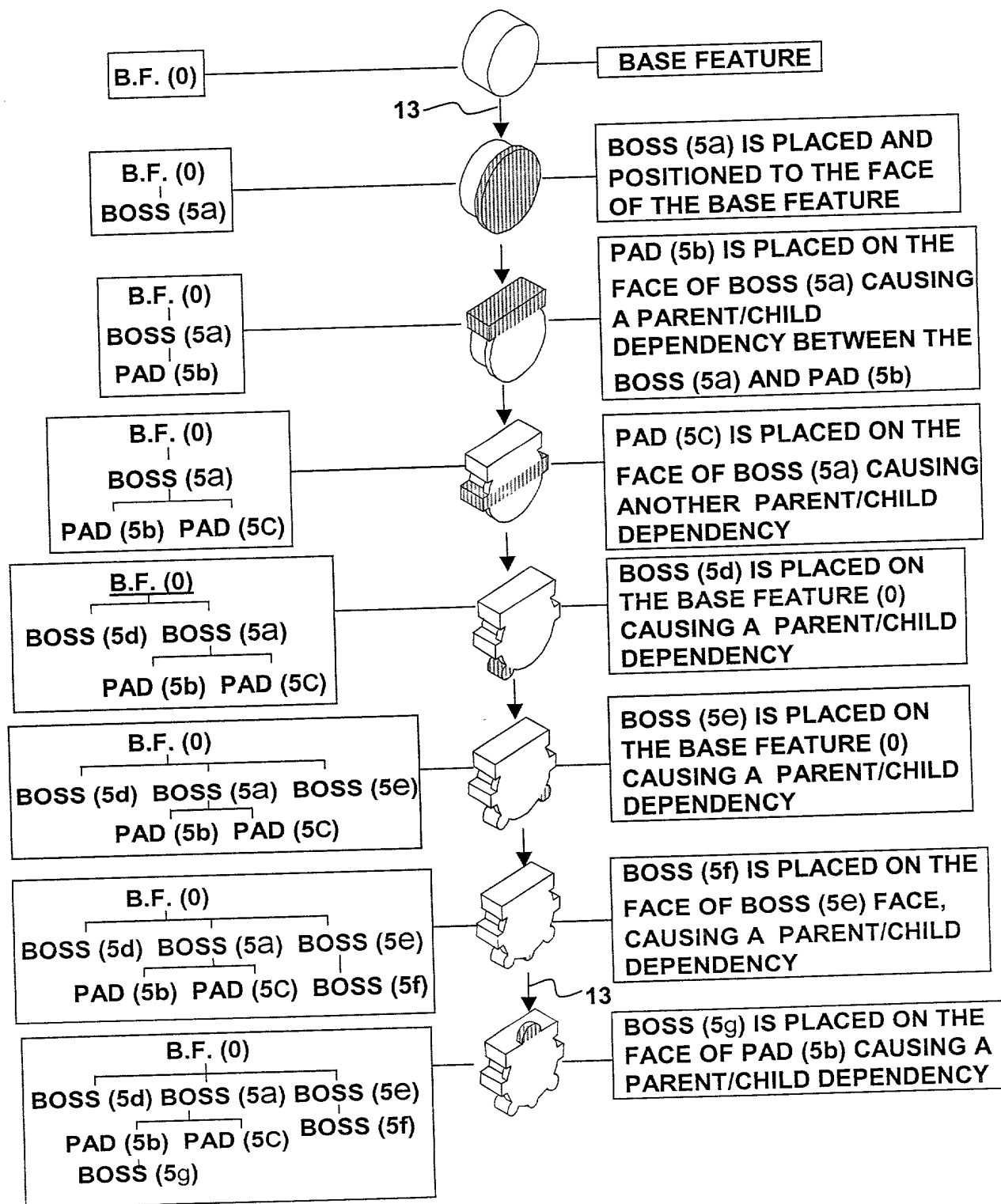


FIG. 3

FIG. 4

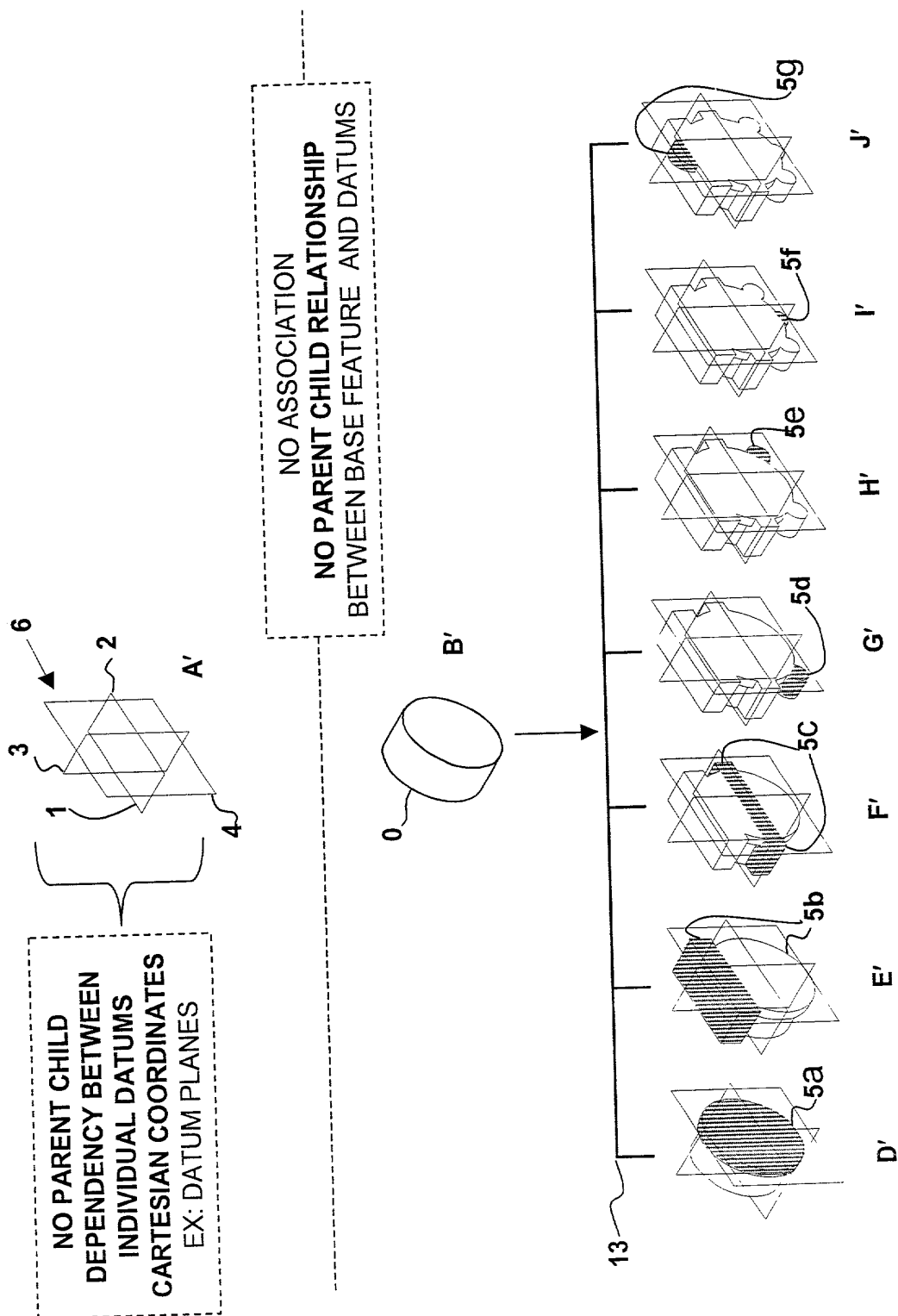


FIG. 4

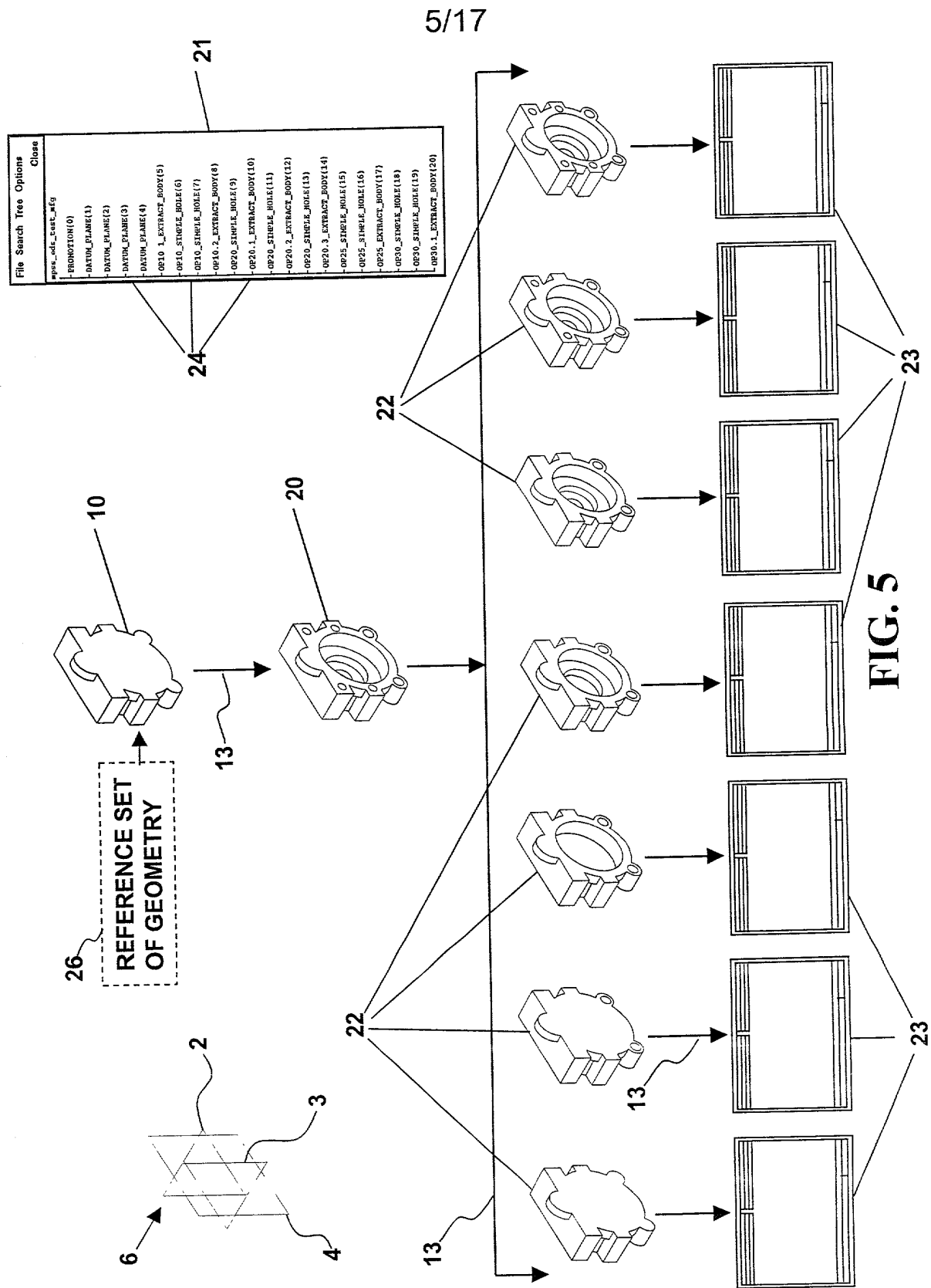


FIG. 5

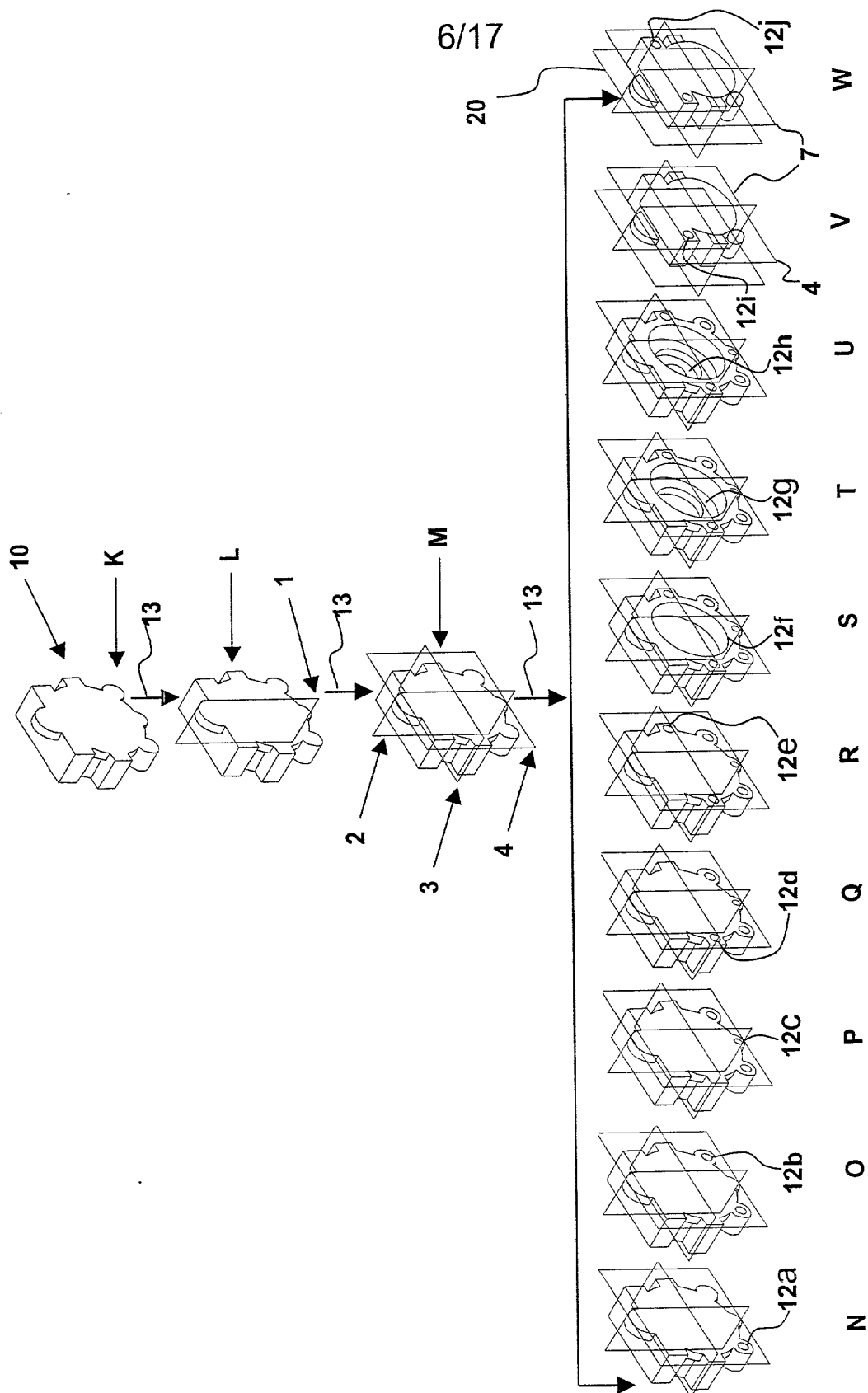
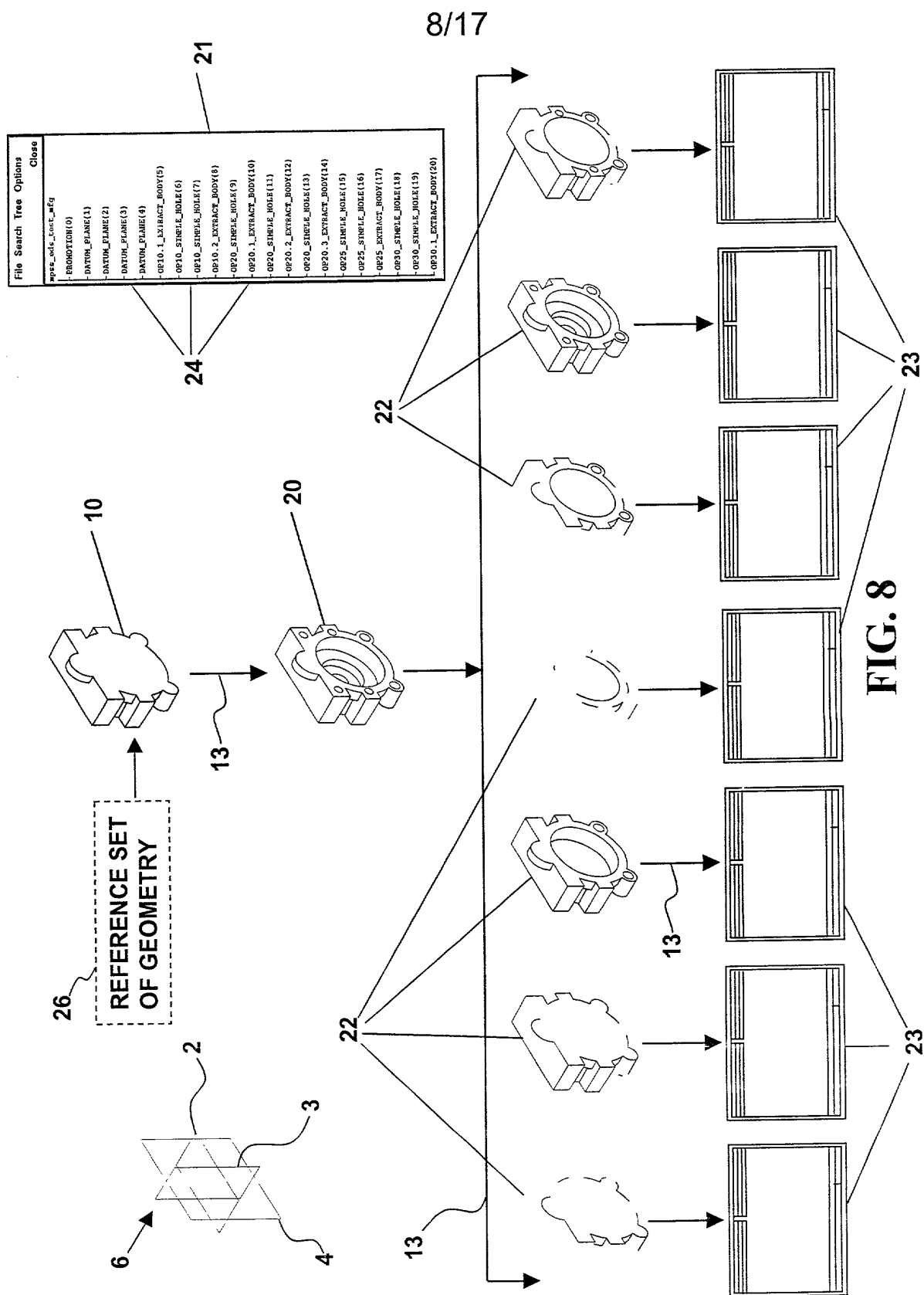


FIG. 6

FIG. 8



9/17

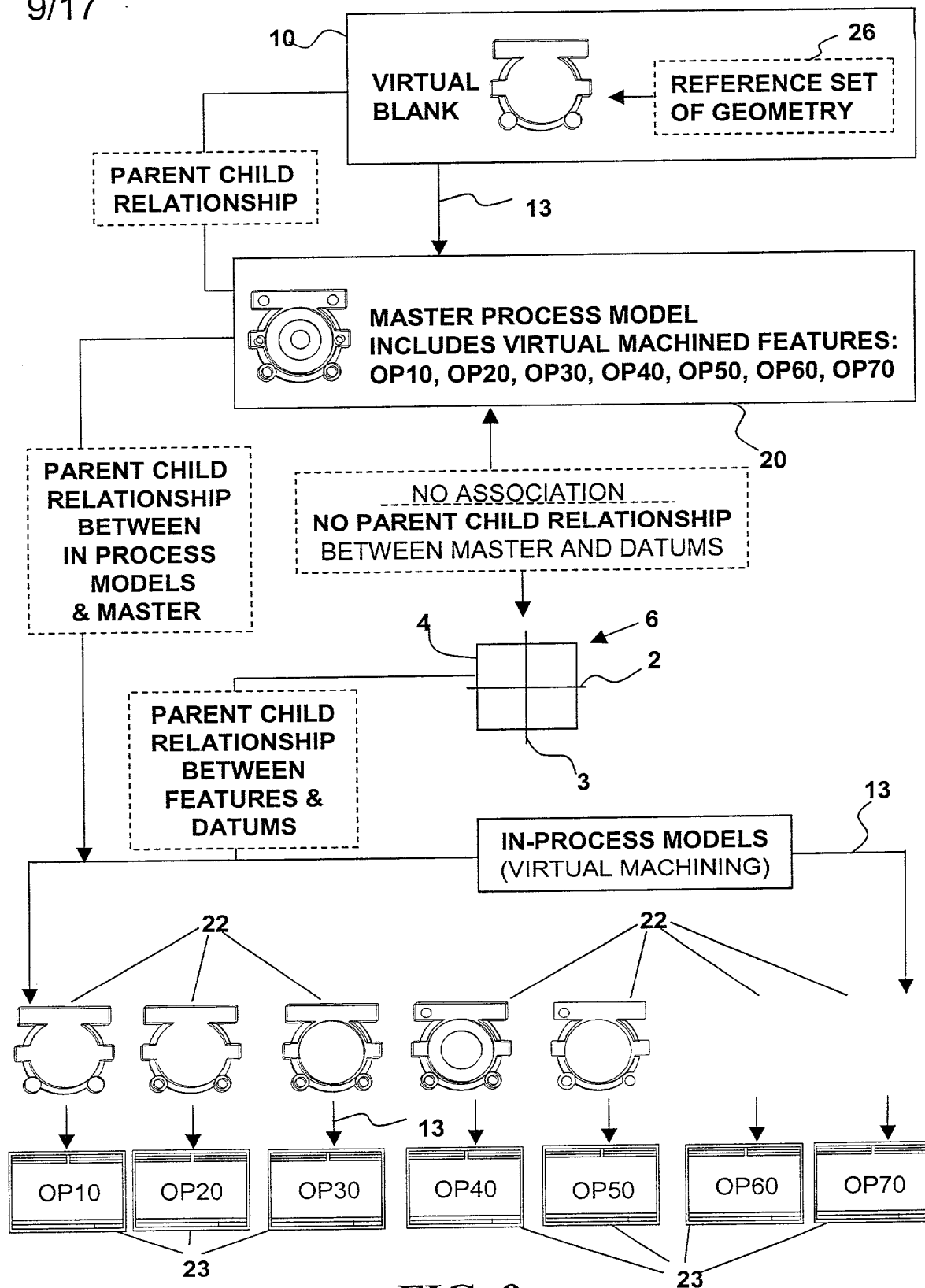


FIG. 9

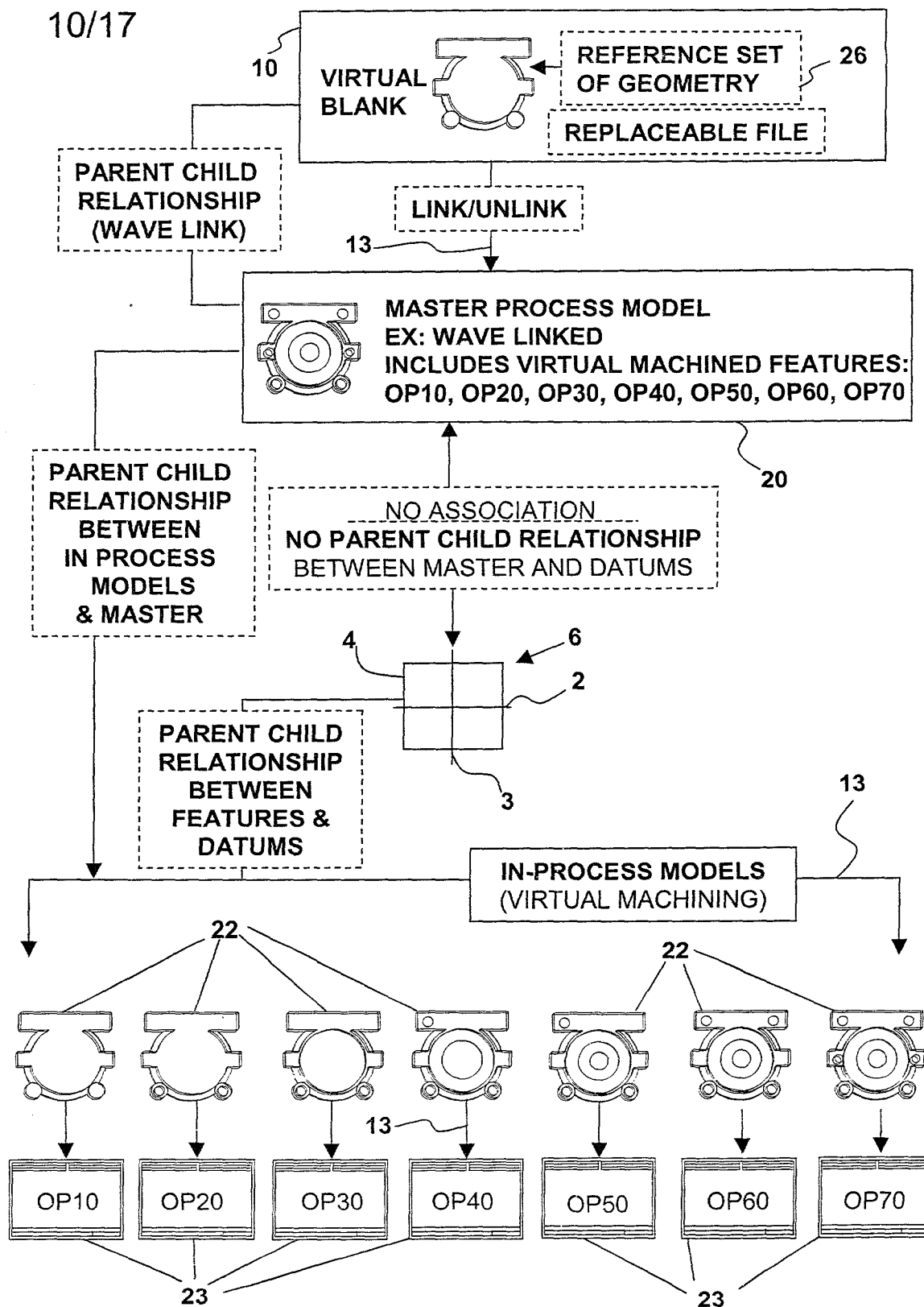


FIG. 10

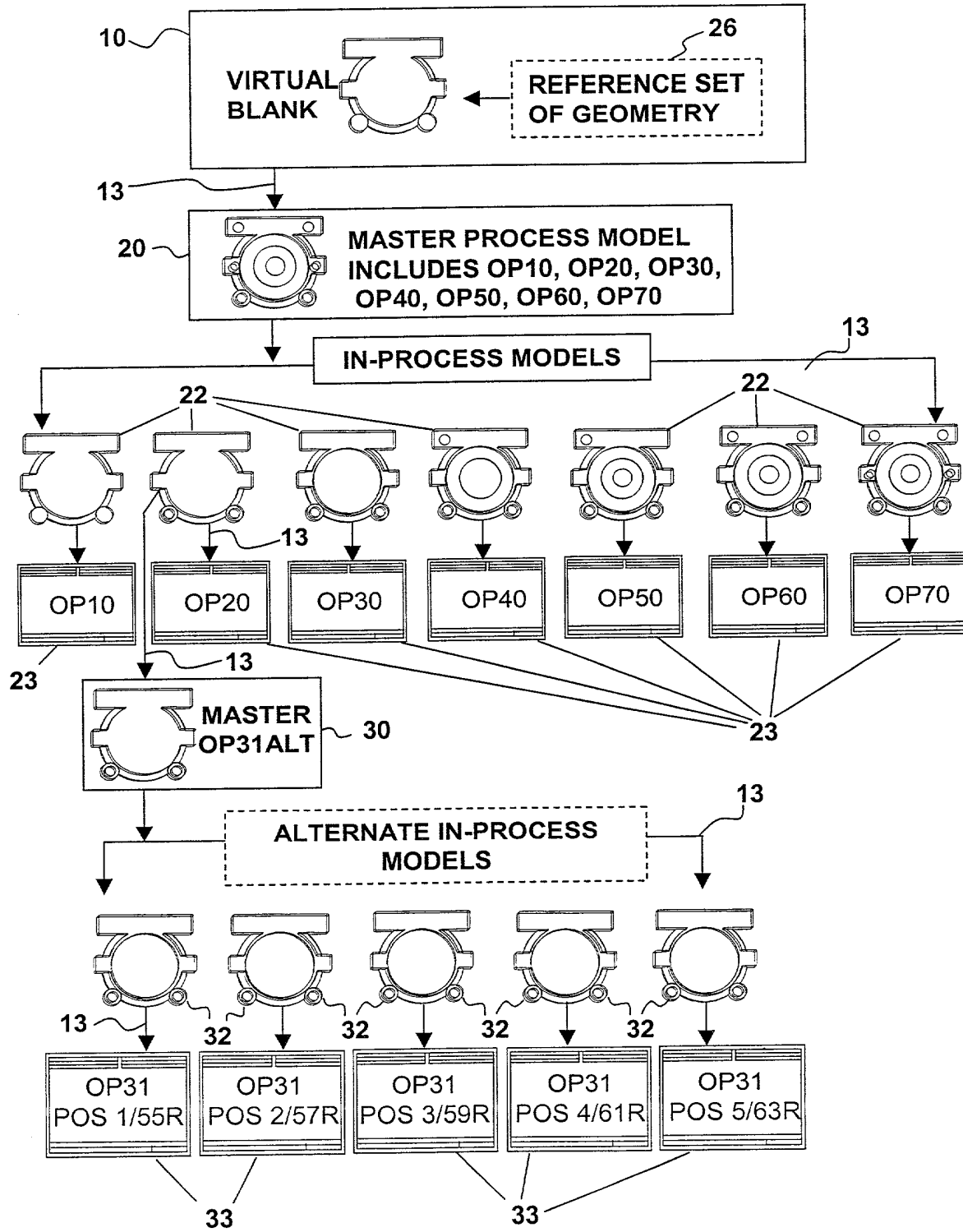


FIG. 11

FIG. 12

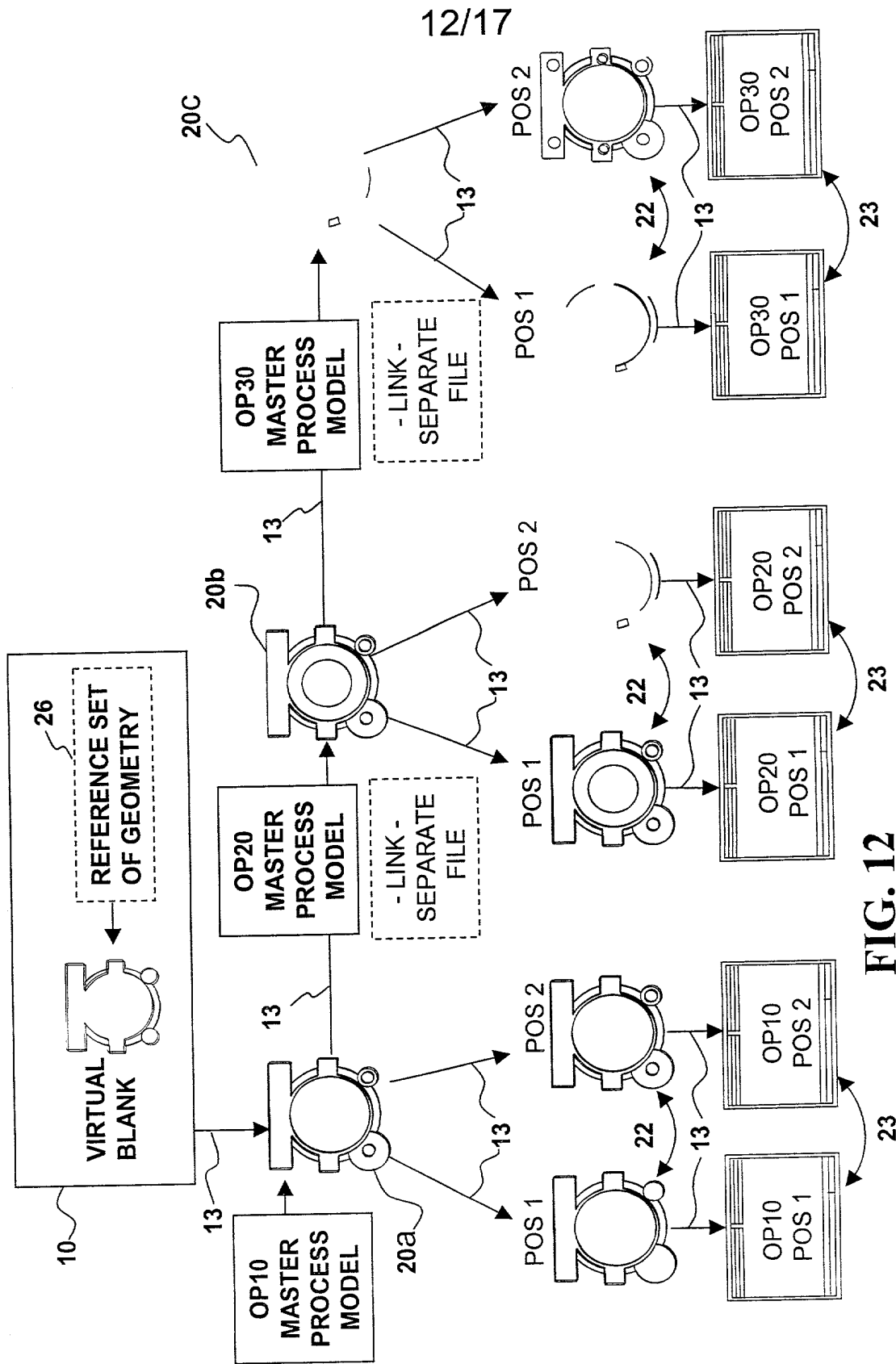


FIG. 12

13/17

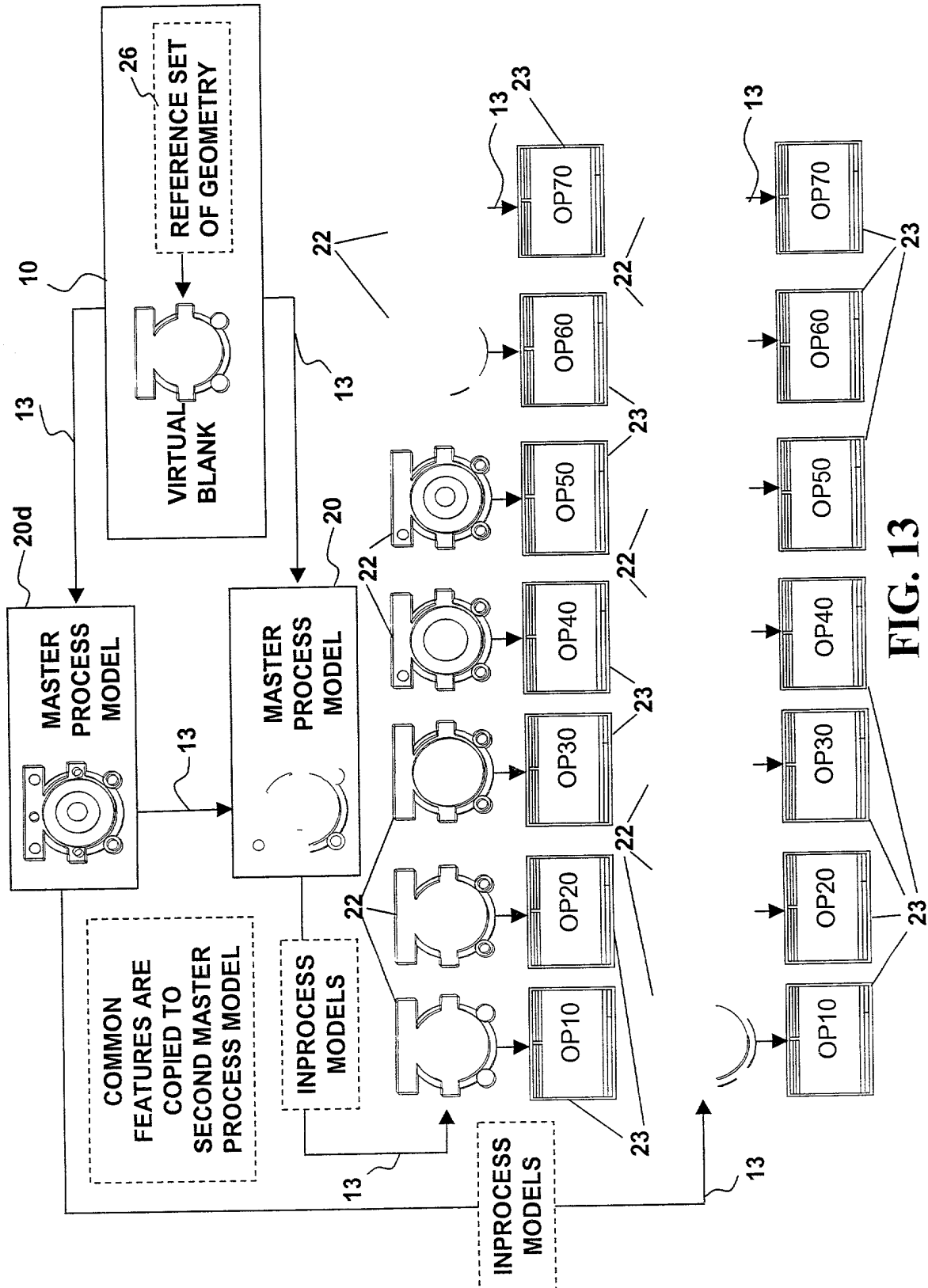


FIG. 13

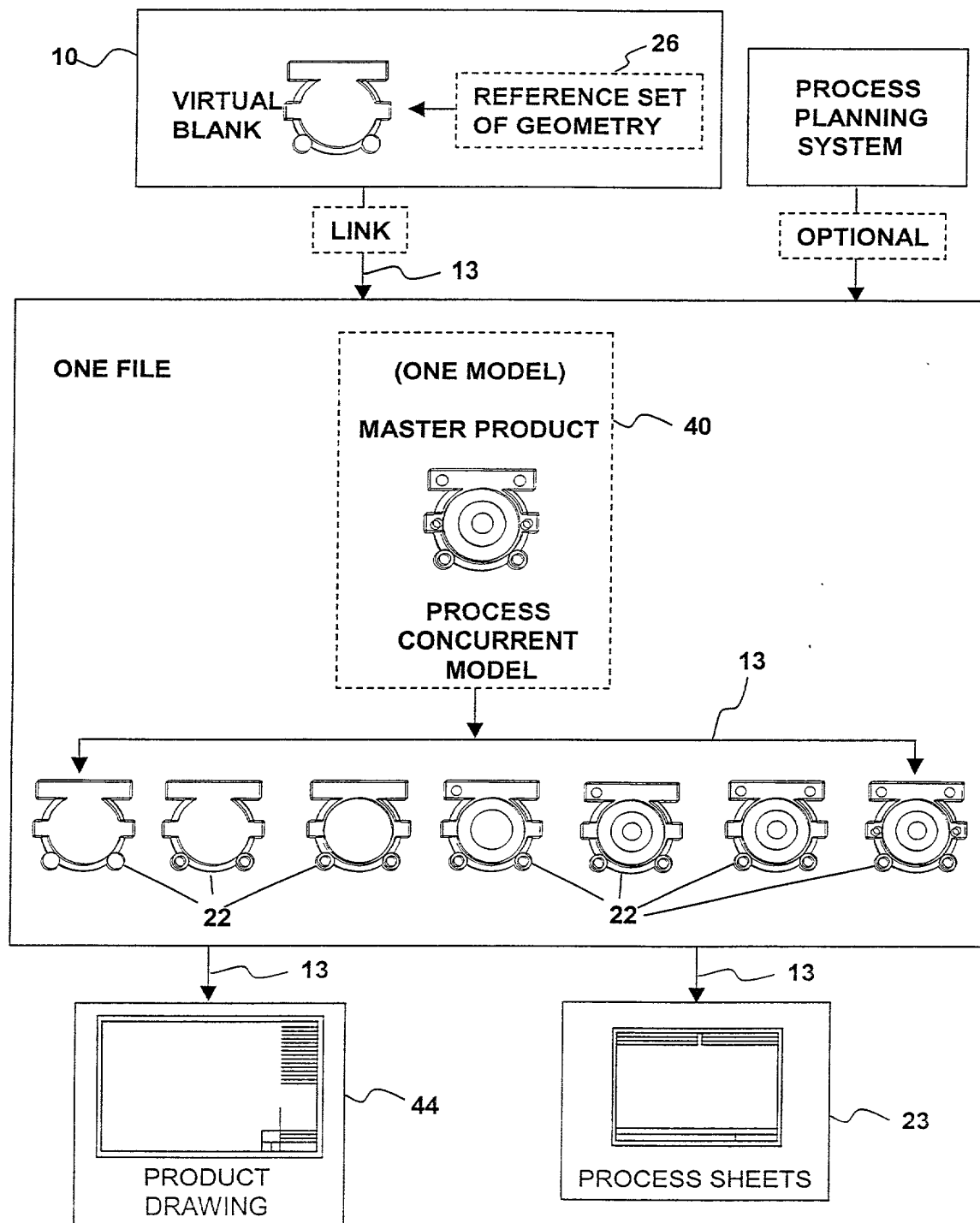


FIG. 14

15/17

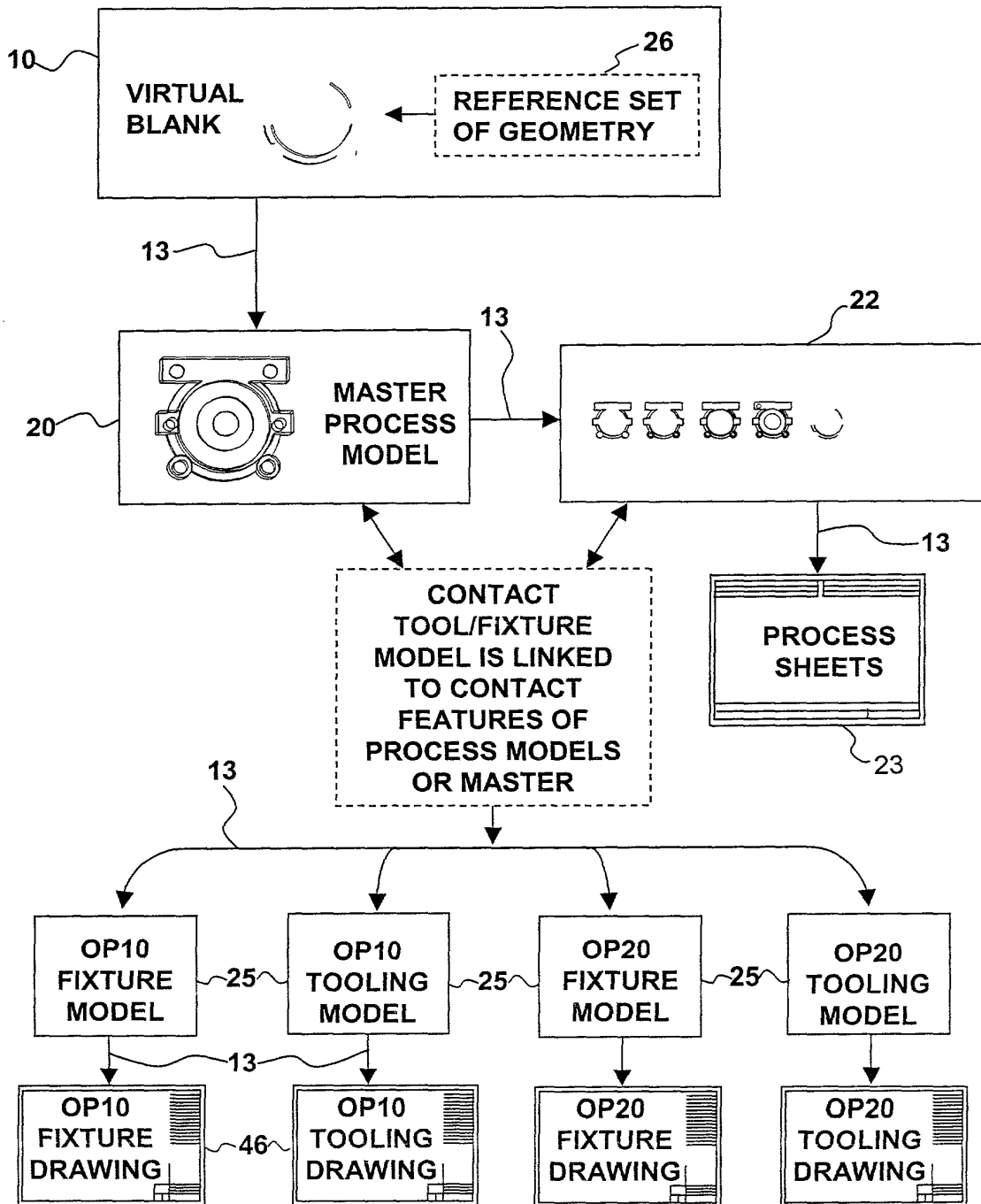


FIG. 15

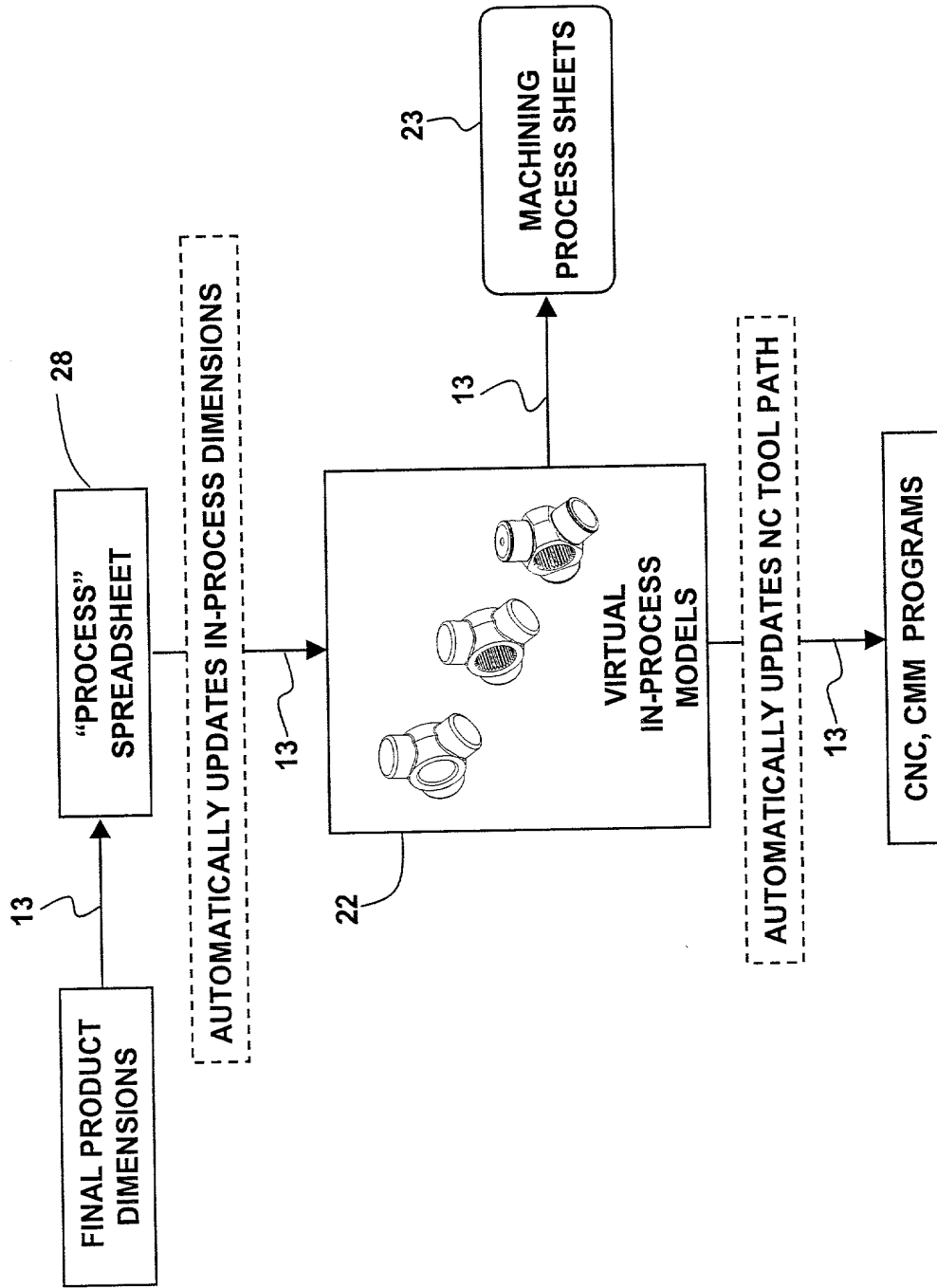


FIG. 16

FIG. 17

28

BLUE: FINAL PRODUCT DIMENSIONS			
YELLOW HILITE: PROCESS RULE			
RED: CALCULATED IN-PROCESS DIMENSIONS BASED ON PROCESS RULES			
Operations	Part	Description	Parameters
Operation 11/13/14 Bore and Chamfer		Max Broached hole diameter after HT	max_broach_hole_dia
		Min Broached hole diameter after HT	min_broach_hole_dia
		Heat treat distortion	htd_broach
		Max minor diameter of Broached hole before HT	max_minor_dia
		Min minor diameter of Broached hole before HT	min_minor_dia
		Minimum recommended stock removal(broach)	min_stk_rem
		Maximum recommended stock removal (broach)	max_stk_rem
		Maximum Bored hole diameter	max_hole_dia
		Minimum Bored hole diameter	min_hole_dia
		Average Bored hole diameter	avg_hole_dia

AUTOMATICALLY UPDATES IN-PROCESS DIMENSIONS

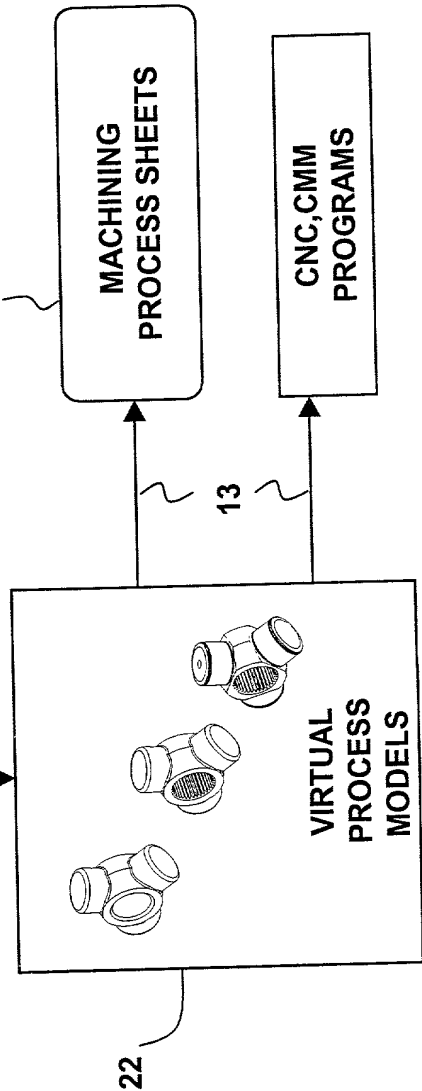


FIG. 17